AMENDMENT UNDER 37 C.F.R. § 1.114(c) Attorney Docket No.: Q76525

U.S. Appln. No.: 10/662,948

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the

application:

LISTING OF CLAIMS:

1. (canceled).

2. (Previously presented): A method for preparing a material in a batch process by

throwing in a raw material and feeding the prepared material to a following downstream process,

the method comprising:

calculating a necessary amount of the material for the following process; and

allocating the calculated amount of the material to following predetermined number of

batches if the calculated necessary amount is less than a predetermined amount, an allocated

amount being equal to or more than a minimum amount one batch process can treat, wherein the

predetermined amount is less than three times a standard amount one batch process treats and the

predetermined number of batches is three.

3. (Original) A method for preparing a material in a batch process by throwing in a raw

material and feeding the prepared material to the following process, the method comprising steps

of:

calculating a necessary amount (A) of the material for the following process; and

determining a real amount (B) to be prepared in the following batch process by use of a

maximum amount per one batch process M-max, a minimum amount per one batch process M-

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min, and a standard amount M-st that is determined between the maximum amount M-max and the minimum amount M-min, the real amount being determined by the following steps:

determining the real amount (B) as the standard amount M-st if the necessary amount (A) is more than twice standard amount M-st;

determining the real amount (B) as a half of the necessary amount (A)/2 if the necessary amount (A) is between twice standard amount and a maximum amount M-max;

determining the real amount (B) as the necessary amount (A) if the necessary amount (A) is between the maximum amount M-max and the minimum amount M-min; and

determining the real amount (B) as the minimum amount M-min if the necessary amount (A) is less than the minimum amount M-min.

- 4. (Original) A method as claimed in claim 3, wherein the maximum amount M-max is more than twice the minimum amount M-min.
- 5. (Original) A method as claimed in claim 3, further comprising a step of: determining the real amount (B) as the minimum amount M-min when the real amount (B) is set to the half of the necessary amount (A)/2 and the minimum amount M-min is more than the half of the necessary amount (A)/2.
 - 6. (Original) A method as claimed in claim 3, further comprising a step of:

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determining the real amount (B) as the maximum amount M-max or an amount between the maximum amount M-max and the standard amount M-st if the necessary amount (A) is more than twice the maximum amount M-max.

7. (Original) A method as claimed in claim 3, further comprising a step of:

providing a standard container containing a necessary amount of the raw material to be thrown in one batch process, and plural fractional containers each of which contains the raw material smaller than the necessary amount; and

selecting a proper container among the standard container and the fractional containers in accordance with the real amount (B).

8. (Original) A method as claimed in claim 4, further comprising a step of:

providing a standard container containing a necessary amount of the raw material to be thrown in one batch process, and plural fractional containers each of which contains the raw material smaller than the necessary amount; and

selecting a proper container among the standard container and the fractional containers in accordance with the real amount (B).

9. (Original) A method as claimed in claim 5, further comprising a step of:

providing a standard container containing a necessary amount of the raw material to be thrown in one batch process, and plural fractional containers each of which contains the raw material smaller than the necessary amount; and

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selecting a proper container among the standard container and the fractional containers in accordance with the real amount (B).

10. (Original) A method as claimed in claim 6, further comprising a step of:

providing a standard container containing a necessary amount of the raw material to be thrown in one batch process, and plural fractional containers each of which contains the raw material smaller than the necessary amount; and

selecting a proper container among the standard container and the fractional containers in accordance with the real amount (B).

11. (Original) A method for preparing a material in a batch process by throwing in a raw material into a batch system and feeding the prepared material to the following process, the batch system including a plurality of material preparation lines, each of which including one or more multi-purpose primary material preparation vessels, one or more multi-purpose material stock vessel each of which is connected to each of the multi-purpose primary material preparation vessels, one or more material measuring device each of which is connected to each of the multi-purpose material stock vessels, a single secondary material preparation vessel, and piping connected to the material measuring devices to feed the material in the material stock vessels to the single secondary material preparation vessel, and a required change of the chemical liquid being made by replacing the material in each of the vessels with new ones without affecting another material preparation line in changing prescription for the following downstream process, the method comprising steps of:

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calculating a necessary amount (A) of the material for the following process; and determining a real amount (B) to be prepared in the following batch process by use of a maximum amount per one batch process M-max, a minimum amount per one batch process Mmin, and a standard amount M-st that is determined between the maximum amount M-max and the minimum amount M-min, the real amount being determined by the following steps:

determining the real amount (B) as the standard amount M-st if the necessary amount (A) is more than twice standard amount M-st;

determining the real amount (B) as a half of the necessary amount (A)/2 if the necessary amount (A) is between twice standard amount and a maximum amount M-max;

determining the real amount (B) as the necessary amount (A) if the necessary amount (A) is between the maximum amount M-max and the minimum amount M-min; and

determining the real amount (B) as the minimum amount M-min if the necessary amount (A) is less than the minimum amount M-min.

12 - 13. (canceled).

14. (Previously presented): A system for preparing one or more materials in a batch process for use in a following downstream process, the system comprising:

means for calculating a necessary amount of the material for the following process; means for allocating the calculated amount of the material to following predetermined number of batches if the calculated necessary amount is less than a predetermined amount; and a plurality of chemical liquid preparation lines, each of which includes:

one or more multi-purpose primary chemical liquid preparation vessels;

one or more multi-purpose chemical liquid stock vessel each of which is connected to each of the multi-purpose primary chemical liquid preparation vessels;

one or more chemical liquid measuring device each of which is connected to each of the multi-purpose chemical liquid stock vessels;

a single secondary chemical liquid preparation vessel; and

piping connected to the chemical liquid measuring devices to feed the chemical liquid in the chemical liquid stock vessels to the single secondary chemical liquid preparation vessel;

whereby a required change of the chemical liquid can be made by replacing the chemical liquid in each of the vessels with new ones without affecting another chemical liquid preparation line in changing prescription for the following downstream process.

- 15. (Previously presented): A batch system as claimed in claim 14, wherein each of the numbers of the multi-purpose primary chemical liquid preparation vessels and the multi-purpose chemical liquid stock vessels in each chemical liquid preparation lines is equal to an expected maximum number of the single chemical liquid feeding lines to be used.
- 16. (Previously presented): A batch system as claimed in claim 14, further comprising: a common chemical liquid preparation vessel for preparing common chemical liquid used in the plural chemical liquid preparation lines;
- a common chemical liquid stock vessel connected to the common chemical liquid preparation vessel; and

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piping connected to the common chemical liquid stock vessel with branches for feeding the common chemical liquid into each of the secondary chemical liquid preparation vessels.

17-19. (canceled).

20. (Previously presented): A method for preparing a material in a batch process by

throwing in a raw material and feeding the prepared material to a following downstream process,

the method comprising:

calculating a necessary amount of the material for the following process; and

allocating the calculated amount of the material to following predetermined number of

batches if the calculated necessary amount is less than a predetermined amount, an allocated

amount being equal to or more than a minimum amount one batch process can treat,

wherein if the calculated necessary amount is not less than the predetermined amount, the

method further comprising:

allocating an adjusted amount of the material based on the calculated necessary amount

and the predetermined amount to the following predetermined number of batches.

21. (Previously presented): A system for preparing one or more materials in a batch

process for use in a following downstream process, the system comprising:

means for calculating a necessary amount of the material for the following process; and

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means for allocating the calculated amount of the material to following predetermined number of batches if the calculated necessary amount is less than a predetermined amount,

wherein if the means for allocating the calculated amount determines that the calculated necessary amount is not less than the predetermined amount, the means for allocating allocates an adjusted amount of the material based on the calculated necessary amount and the predetermined amount to the following predetermined number of batches.

22. (New): A method for preparing a material in a batch process comprising: throwing in a raw material into a batch system; and feeding the prepared material to the following process,

wherein the batch system includes a plurality of material preparation lines, each of which including one or more multi-purpose primary material preparation vessels, one or more multi-purpose material stock vessel each of which is connected to each of the multi-purpose primary material preparation vessels, one or more material measuring device each of which is connected to each of the multi-purpose material stock vessels, a single secondary material preparation vessel, and piping connected to the material measuring devices to feed the material in the material stock vessels to the single secondary material preparation vessel, and a required change of the chemical liquid being made by replacing the material in each of the vessels with new ones without affecting another material preparation line in changing prescription for the following downstream process.

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